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GENERAL STUDIES

Solved Paper

(Exam Date : 11-02-2024)

1. Given below are two statements, in which one is labelled as Assertion (A) and other as Reason (R) :

Assertion (A) : The boiling point of water decreases as the altitude increases.

Reason (R) : The atmospheric pressure increases with altitude.

Select the correct answer using the code given below :

Code :

- (a) (A) is true but (R) is false.
(b) (A) is false but (R) is true.
(c) Both (A) and (R) are true and (R) is correct explanation of (A).
(d) Both (A) and (R) are true but (R) is not correct explanation of (A).

Ans. (a) : The boiling point is a temperature at which a liquid boils and turns to vapour. For water the boiling point is 100°C. The boiling point of a liquid, depends on atmospheric pressure, if atmospheric pressure is greater then the boiling point is lower and vice-versa.

Hence boiling point of water decreases as the altitude increases as atmospheric pressure decreases with increasing in altitude. Thus statement-I is correct while statement-II is incorrect.

2. Which of the following city/cities is/are not situated in present day Afghanistan?

1. Ghazni 2. Fergana
3. Kandahar 4. Samarkand

Select the correct answer from the code given below :

Code :

- (a) 2 and 4 (b) Only 1
(c) 2 and 3 (d) Only 4

Ans. (a) : The Fergana and Samarkand both are situated at Uzbekistan while Ghazni and Kandahar both are situated at present day Afghanistan.

3. What is the correct chronological order of the Sultans of Sayyid dynasty?

1. Khizr Khan
2. Muhammad Shah
3. Mubarak Shah
4. Ala-ud-Din Alam Shah

Select the correct answer from the code given below :

Code :

- (a) 1, 3, 4, 2 (b) 1, 4, 2, 3
(c) 1, 3, 2, 4 (d) 1, 2, 3, 4

Ans. (c) : The Sayyid dynasty was the fourth dynasty of Delhi sultanate. The founder of dynasty was Khizr Khan. The rulers were Khizr Khan followed by Mubarak Shah, Muhammad Shah and Ala-ud-din Alam Shah.

4. A voltage of 15 volt is applied across a colour coded carbon resistor with first, second and third rings of brown, green and black colours. What is the current flowing through the resistor?

- (a) 3 ampere (b) 2 ampere
(c) 1 ampere (d) None of the above

Ans. (c) : Given, $I = ?$

$V = 15$ Volt

Colour coding of carbon resistor

Brown	Green	Black
1	5	0

$R = 15 \times 10^0 = 15\Omega$

The current flowing through the resistor is -

$$I = \frac{V}{R} = \frac{15}{15} = 1A$$

5. Consider the following types of erosion and arrange these in correct sequence in terms of the increasing order of soil loss from the field due to these types of erosion -

- I. Gully erosion II. Splash erosion
III. Rill erosion IV. Sheet erosion

Select the correct answer from the code given below :

Code :

- (a) IV, I, III, II (b) II, IV, III, I
(c) III, II, I, IV (d) II, III, IV, I

Ans. (b) : Rainfall produces four types of soil erosion the correct sequence in terms of increasing order of soil loss from the field due to these types of erosion are as follows :-

Splash erosion, sheet erosion, rill erosion and gully erosion.

Assertion (A) : The struggles in South Africa prepared Gandhiji to lead the National Movement.

Reason (R) : Seeing the militancy of Indians in South Africa, Gandhiji was convinced that the Indian people would be ready for militant struggle and sacrifice for a cause.

Select the correct answer from the code given below :

Code :

- (a) Both (A) and (R) are correct and (R) is correct explanation of (A).
 (b) (A) is correct but (R) is incorrect.
 (c) Both (A) and (R) are correct but (R) is not the correct explanation of (A).
 (d) (A) is incorrect but (R) is correct.

Ans. (b) : The struggles in South Africa for the rights of Indian prepared Gandhi ji to lead the National movement. He believed his way of truth non-violence and Satyagrah would make Indians ready for freedom struggle. Thus, Assertion is correct and Reason is incorrect.

12. A sum invested at 7% simple interest per annum grows to ₹ 540 in 5 years. The same amount at 9% simple interest per annum in 3 years will grow to be-

- (a) ₹ 450 (b) ₹ 520
 (c) ₹ 420 (d) ₹ 508

Ans. (b) : Let, Principal amount (P) = Rs. x

Interest Rate(R_1) = 7% Yearly

Time(T_1) = 5years

$$SI_1 = \frac{P \times R_1 \times T_1}{100}$$

Simple Interest(SI_1) = Rs. (540 - x)

$$(540 - x) = \frac{x \times 7 \times 5}{100}$$

$$135x = 54000$$

$$x = ₹400$$

As per question-

Interest received in 3 years at rate of 9% per annum-

$$= \frac{400 \times 9 \times 3}{100} = 108 \text{ Rs.}$$

Amount = Rs. (400 + 108) = 508 Rs.

13. Match List-I with List-II and select the correct answer using the code given below

List-I		List-II	
A.	Jaya Varma Sinha	1.	Author of "Tales from Banana Republic"
B.	Manoj Nath	2.	P.M. of Thailand

C.	Srettha Thavisin	3.	The first woman Chairperson of the Railway Board
D.	Dr. Mohamed Muizzu	4.	President of Maldives

Code :

- A B C D A B C D
 (a) 4 1 2 3 (b) 2 1 3 4
 (c) 3 1 2 4 (d) 3 2 1 4

Ans. (c) :

Jaya Varma Sinha	-	The first woman Chairperson of the Railway Board
Manoje Nath	-	Author of "Tales from Banana Republic"
Srettha Thavisin	-	P.M. of Thailand
Dr. Mohamed Muizzu	-	President of Maldives

14. Out of the four given pairs below, how many of the following pairs are correctly matched?

List-I (Research Institute)		List-II (City)	
A.	Arid Forest Research Institute	-	Jodhpur
B.	Himalayan Forest Research Institute	-	Dehradun
C.	Rain Forest Research Institute	-	Jorhat
D.	Tropical Forest Research Institute	-	Jabalpur

- (a) 4 (b) 2
 (c) 1 (d) 3

Ans. (d) : The correct match is as follows:

Research Institutes	City	
Arid Forest Research Institute	-	Jodhpur
Himalayan Forest Research Institute	-	Shimla
Rain Forest Research Institute	-	Assam
Tropical Forest Research Institute	-	Jabalpur

Hence only three pairs are matched.

15. Consider the following statements with reference to osmosis :

- If the semi permeable membrane is placed between the solvent and solution, the solvent molecules will flow through the membrane from pure solvent to the solution.
- The process of flow of solvent is called as reverse osmosis.

Select the correct answer using the code given below :

- (a) Both 1 and 2 (b) Only 1
(c) Neither 1 nor 2 (d) Only 2

Ans. (a) : If the semi permeable membrane is placed between the solvent and solution then the solvent molecules will flow through the membrane from pure solvent to the solution and this process of flow of solvent is called reverse osmosis (R.O). Hence both the statements are correct.

16. Consider the following statements with reference to Uttar Pradesh Budget, 2023-24 –

1. The size of the Budget is ₹ 7,60,000 crore.
2. The Fiscal Deficit is estimated to be at ₹ 84, 883.16 crore.

Select the correct answer using the code given below :

- Code :**
(a) Both 1 and 2 (b) Only 2
(c) Neither 1 nor 2 (d) Only 1

Ans. (b) : The size of budget of Uttar Pradesh for the financial year 2023-24 was 6.90 lakh crore and fiscal deficit was estimated to be at ₹ 84188316 Crore. Hence statement-I is incorrect while statement-II is correct.

17. Consider the following events and arrange them in chronological order-

- I. C.R. Rao, the eminent Statistician, passed away
- II. Ustad Ali Zaki Haider, the Rudra Veena exponent, passed away
- III. Bindeshwar Pathak, father of public toilets in India, passed away
- IV. M.S. Swaminathan, father of India's Green Revolution, passed away

Select the correct answer using the code given below :

- Code :**
(a) III, I, II, IV (b) IV, II, III, I
(c) IV, I, II, III (d) II, III, I, IV

Ans. (a) :

Personality	Death
C.R Rao	– 22.August 2023
Ustad Ali Zaki Haider	– 8 September, 2023
Bindeshwar Pathak	– 15 August 2023
M.S. Swaminathan	– 28 September 2023

Hence the correct chronology of events is III, I, II & IV.

18. Consider the following events of seed multiplication stages and arrange these in correct chronological order from earliest stage to last -

- I. Breeder seed II. Foundation seed
III. Certified seed IV. Nucleus seed

Select the correct answer from the code given below :

- Code :**
(a) IV, I, II, III (b) II, III, I, IV
(c) III, I, IV, II (d) II, IV, III, I

Ans. (a) : The correct chronological order of seed multiplication stage from earliest stage to last is Nucleus seed, Breeder seed, foundation seed and certified seed. Hence option (a) is the correct answer.

19. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : India is the largest producer of Jute in the world.

Reason (R) : India's Jute production increased due to Yellow Revolution.

Select the correct answer using the code given below :

- Code :**
(a) Both (A) and (R) are true but (R) is not correct explanation of (A).
(b) (A) is true but (R) is false.
(c) (A) is false but (R) is true.
(d) Both (A) and (R) are true and (R) is the correct explanation of (A).

Ans. (b) : India is the largest producer of jute in the world. The jute production in India increased due to Golden Fiber Revolution. Hence Assertion (A) is true while Reason (R) is false.

20. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : Roscomos's Luna-25 mission to moon was aimed at ensuring guaranteed access to moon.

Reason (R) : Russia and China together are leading International Lunar Research Station (ILRS) against U.S. led Artemis Accord.

Select the correct answer from the code given below :

- Code :**
(a) (A) is true but (R) is false.
(b) Both (A) and (R) are true but (R) is not correct explanation of (A).
(c) Both (A) and (R) are true and (R) is correct explanation of (A).
(d) (A) is false but (R) is true.

Ans. (d) : Roscomos's Luna-25 mission to moon was aimed at ensuring guaranteed access to moon. Russia and China together are leading International Lunar Research Station (ILRS), which will strengthen scientific research exchanges and promote humanity's exploration and use of outer space for peaceful purpose. The ILRS launched against U.S led Artemis accord Luna-25 was Russian probes to support ILRS. Hence both Assertion (A) and Reason (R) are correct and (R) is the correct explanation of (A).

21. $x\%$ of y is equal to $y\%$ of _____.

- (a) x (b) $100x$
 (c) $\frac{x}{100}$ (d) None of the above

Ans. (a) : $x\%$ of $y = \frac{x}{100} \times y$

$$y\% \text{ of } ? = \frac{y}{100} \times ?$$

$$\frac{x \times y}{100} = \frac{y \times ?}{100}$$

$$? = x$$

22. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : During the winter season, most part of India is dry.

Reason (R) : Most parts of the country are under influence of the northeast trade winds during the winter season.

Select the correct answer using the code given below :

Code :

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A).
 (b) Both (A) and (R) are true but (R) is not the correct explanation of (A).
 (c) (A) is false but (R) is true.
 (d) (A) is true but (R) is false.

Ans. (d) : During the winter season, most part of India is dry because most of parts of country are under influence of the northeast trade winds which blow from land to sea thus they are dry and do not cause rainfall. Hence both assertion (A) and reason (R) are correct and (R) is the correct explanations of A.

23. Match List-I with List-II and select the correct answer using the code given below

- | List-I
(Dance) | List-II
(State) |
|-------------------|--------------------|
| A. Bharatnatyam | 1. Tamil Nadu |
| B. Kuchipudi | 2. Uttar Pradesh |
| C. Sattriya | 3. Andhra Pradesh |
| D. Kathak | 4. Assam |

Code :

- | A | B | C | D | A | B | C | D |
|-------|---|---|---|-------|---|---|---|
| (a) 1 | 3 | 4 | 2 | (b) 3 | 4 | 1 | 2 |
| (c) 1 | 4 | 3 | 2 | (d) 1 | 2 | 4 | 3 |

Ans. (a) : The correct match is as follows-

Dance	State
Bharatnatyam	Tamil Nadu
Kuchipudi	Andhra Pradesh.
Sattriya	Assam
Kathak	Uttar Pradesh

24. Consider the following statements with reference to Charkula dance of Uttar Pradesh-

- It is dance performed in the Awadh region of Uttar Pradesh.
- In this dance, veiled women balancing large multi-tiered circular wooden pyramids on their heads dance to songs about Krishna.

Select the correct answer from the code given below :

Code :

- (a) Neither 1 nor 2 (b) Both 1 and 2
 (c) Only 1 (d) Only 2

Ans. (d) : Charkula is a dance form performed in the Braj region of Uttar Pradesh and in this dance, veiled women balancing large multi-tiered circular wooden pyramids on their heads dance to songs about Krishna.

Hence only statement-2 is correct.

25. If the 25th of October in a year is Thursday, the number of Monday in that month is -

- (a) 3 (b) 4
 (c) 5 (d) None of the above

Ans. (c) : If in a year 25th of October is Thursday.

25th Oct – Thursday

29th Oct – Monday

29th Oct – 22th Oct – 15th Oct – 8th Oct – 1st Oct

↓↓↓↓↓

Monday Monday Monday Monday Monday.

Hence in that month total number of Monday is 5.

26. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : The northern slopes of the Himalayas have a thicker vegetation cover compared to the southern slopes.

Reason (R) : Southern slopes of Himalayas receive more rainfall than the northern slopes.

Select the correct answer using the code given below :

Code :

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A).
 (b) (A) is false but (R) is true.
 (c) (A) is true but (R) is false.
 (d) Both (A) and (R) are true but (R) is not the correct explanation of (A).

Ans. (b) : The southern slopes of the Himalaya receive more rain due to the south west monsoon winds which travel west along the southern slopes. The northern slopes do not receive any such rainfall. So the southern slopes are covered with thick vegetation as compared to northern slopes. Hence assertion (A) is false but reason (R) is true.

27. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : Raja Ram Mohan Roy was the Editor of “Sambad Kaumudi”, a Bengali weekly.

Reason (R) : His articles condemning the custom of widow burning were published in it.

Select the correct answer using the code given below :

Code :

- (a) Both (A) and (R) are true and (R) is correct explanation of (A).
 (b) Both (A) and (R) are true but (R) is not the correct explanation of (A).
 (c) (A) is true but (R) is false.
 (d) (A) is false but (R) is true.

Ans. (a) : Sambad Kaumudi, a Bengali weekly was edited by Raja Ram Mohan Roy, in this weekly Magazine in his articles he condemned the custom of widow burning and other social wills. Hence both assertion (A) and reason (R) are correct and (R) is the correct explanation of (A).

28. Match List-I with List-II and select the correct answer using the code given below

List-I		List-II	
A.	Futuh-us-Salatin	1.	Firoz Shah Tughlaq
B.	Futuh-i-Firoz Shahi	2.	Abdul Malik Isami

C.	Tarikh-i-Firoz Shahi	3.	Amir Khusrau
D.	Khazain-ul-Futuh	4.	Ziauddin Barani

Code :

- | | | | | | | | |
|-------|---|---|---|-------|---|---|---|
| A | B | C | D | A | B | C | D |
| (a) 3 | 2 | 1 | 4 | (b) 1 | 3 | 4 | 2 |
| (c) 2 | 1 | 4 | 3 | (d) 2 | 4 | 3 | 1 |

Ans. (c) : The correct match is as follows-

List-I	–	List-II
Futuh-us-Salatin	–	Abdul Malik Isami
Futuh-i-Firoz Shahi	–	Firoz Shah Tughlaq
Tarikh-i-Firoz Shahi	–	Ziauddin Barani
Khazain-ul-Futuh	–	Amir Khusrau

29. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : A person travelling in a car with closed glass windows and doors is safe from the lightning strike.

Reason (R) : Actually a closed car behaves like a hollow conductor, so charges cannot enter inside the car.

Select the correct answer using the code given below :

Code :

- (a) (A) is false but (R) is true.
 (b) Both (A) and (R) are true but (R) is not correct explanation of (A).
 (c) Both (A) and (R) are true and (R) is correct explanation of (A).
 (d) (A) is true but (R) is false.

Ans. (c) : A person travelling in a car with closed glass windows and doors is safe from the lightning strike because a closed car behaves like a hollow conductor, so charges cannot enter inside the car. Thus, both Assertion and Reason are correct and Reason explains assertion.

30. With reference to the ‘Rhine River in Europe’, which of the following statements is/are correct?

1. Rhine river is an important pathway for industrial activity in northern Germany.
2. Port of Rotterdam is located at the mouth of the Rhine river.

Select the correct answer using the code given below :

Code :

- (a) Neither 1 nor 2 (b) Only 2
 (c) Both 1 and 2 (d) Only 1

Ans. (b) : Rhine River is an important pathway for industrial activity in western Germany (not Northern Germany). Hence statement-I is incorrect. The part of Rotterdam is located at the mouth of Rhine river. It is the largest seaport in Europe. Hence statement-II is correct.

31. Consider the following statements with reference to Rudrama and choose the correct statements about her-

1. Rudrama was fourth independent ruler of Kakatiya dynasty of Warangal.
2. She defeated Pandyas of South Tamil Nadu, Eastern Ganga rulers of Orissa and Seuna rulers of Devgiri.

- (a) Only 1 (b) Neither 1 nor 2
(c) Both 1 and 2 (d) Only 2

Ans. (c) : The Kakatiya dynasty was founded by Betaraju, who took the name Prola Raja in the early 12th century. Rudrama also known as Rudrama Devi was the fourth independent ruler of Kakatiya dynasty of Warangal. She defeated Pandyas of Southern Tamil Nadu. She also repulsed invasions by the Senas (Vadavas) rulers of Devgiri, Eastern Ganga rulers of Orissa and Gajapatis from north-east. Hence both the statements are correct.

32. Which of the following statements is/are correct?

- I. First Agricultural University was established at Pantnagar, Uttarakhand (erstwhile part of Uttar Pradesh) in 1960.
- II. During 1901-1905, six agricultural colleges were established at Kanpur, Pune, Sabour, Nagpur, Lyallpur and Coimbatore.

- Code :**
(a) Neither I nor II (b) Only II
(c) Only I (d) Both I and II

Ans. (c) : G.B Pant University of Agriculture and Technology, also known as Pantnagar University, is the first agricultural university of India. It is located at Pantnagar Uttarakhand. College of Agriculture at Kanpur, Sabour, Nagpur and Lyallpur were established between 1901-1905. Agriculture college Saidapet Chennai was established in 1868 and later located is Coimbatore during 1906. College of Agriculture at Pune was established in 1907. Hence only statement-I is correct, while statement 2 is incorrect.

33. The 6th Schedule of the Indian Constitution is related to the administration of Tribal areas of-

- (a) Assam, Arunachal Pradesh, Tripura & Mizoram
- (b) Assam, Tripura, Nagaland & Mizoram
- (c) Assam, Nagaland, Meghalaya & Mizoram
- (d) Assam, Meghalaya, Tripura & Mizoram

Ans. (d) : The 6th Schedule of Indian constitution is related to the administration of Tribal areas of Assam, Meghalaya, Tripura and Mizoram.

34. Match List-I and List-II and select the correct answer using the code given below

List-I (Country)	List-II (Total Medals won in Hangzhou, Asian Games-2023)
A. China	1. 190
B. Japan	2. 107
C. Republic of Korea	3. 383
D. India	4. 188

- Code :**
- | | |
|-------------|-------------|
| A B C D | A B C D |
| (a) 3 2 4 1 | (b) 2 1 3 4 |
| (c) 1 2 4 3 | (d) 3 4 1 2 |

Ans. (d) : The correct match is as follows-

Country	Total medals won in Hangzhou, Asian Games 2023
China	– 383
Japan	– 188
Republic of Korea	– 190
India	– 107

35. Match List-I with List-II and choose the correct answer using the code given below

List-I	List-II
A. Vitamin-C	1. Night blindness
B. Folic Acid	2. Beri-Beri
C. Vitamin-A	3. Anemia
D. Vitamin-B1	4. Scurvy

- Code :**
- | | |
|-------------|-------------|
| A B C D | A B C D |
| (a) 1 2 4 3 | (b) 4 3 1 2 |
| (c) 4 3 2 1 | (d) 2 3 1 4 |

Ans. (b) : The correct match is as follows-

List-I	List-II
Vitamin C	– Scurvy
Folic Acid	– Anemia
Vitamin-A	– Night blindness
Vitamin-B1	– Beri-Beri

36. What is correct in the following statements with reference to Uttar Pradesh?

- A. Age has been determined in Pre-primary education as 3 to 5 years.
- B. Age has been determined in Primary education as 6 to 11 years.

Select the correct answer from the following code :

Code :

- (a) Only B (b) Only A
(c) Neither A nor B (d) Both A and B

Ans. (d) : In Uttar Pradesh 3-5 years of age has been determined for pre primary education and 6-11 years of age for primary education. Thus both statements are correct.

37. Consider the important events of coal minings in India and arrange these in correct chronological order starting from the earliest to the last activity -

- I. First production of coal in Raniganj
- II. Establishment of Coal India Ltd. (CIL)
- III. Nationalisation of coal mines
- IV. Establishment of National Coal Development Corporation (NCDC)

Select the correct answer using the code given below :

Code :

- (a) III, I, II, IV (b) I, III, II, IV
(c) I, II, III, IV (d) I, IV, III, II

Ans. (*) :

Activity	Year
First Production of coal in Raniganj	1774
Establishment of coal India Ltd (CIL)	1975
Nationalisation of coal mines	1946
National Coal Development Corporation (NCDC)	1963

Hence the correct Chronology of activity is I, III, IV, II.

38. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : The equatorial forest biome is the biome with the densest and highest biomass.

Reason (R) : There is high rainfall and high temperature throughout the year in the equatorial forest region.

Select the correct answer using the code given below :

Code :

- (a) (A) is false but (R) is true.
(b) Both (A) and (R) are true and (R) is correct explanation of (A).
(c) (A) is true but (R) is false.
(d) Both (A) and (R) are true but (R) is not correct explanation of (A).

Ans. (b) : The equatorial forest biome is the biome with the densest and highest biomass because high rain fall and high temperature throughout the year in this region.

39. Consider the following statements with reference to Bankim Chandra Chattopadhyay-

1. He was the first graduate of Calcutta University.
2. 'Sitaram' was his last Novel.

Select the correct answer using the code given below :

Code :

- (a) Both 1 and 2 (b) Neither 1 nor 2
(c) Only 1 (d) Only 2

Ans. (a) : Bankim Chandra Chattopadhyay was one of the first graduate of Calcutta University, which was founded in 1858.

Sitaram was his last Novel.

Hence both the statements are correct.

40. Consider the following events and arrange them in chronological order with the help of code given below -

- I. First phase of Bank Nationalisation
- II. Second phase of Bank Nationalisation
- III. Establishment of Regional Rural Banks
- IV. Establishment of NABARD

Code :

- (a) IV, II, III, I (b) III, II, I, IV
(c) I, III, II, IV (d) I, II, IV, III

Ans. (c) :

Events	Year
First Phase of Bank Nationalisation	1969
Second Phase of Bank Nationalisation	1980
Establishment of Regional Rural Banks	1975
Establishment of NABARD	1982

Hence the correct Chronology is I, III, II, IV.

41. PIN in banking transaction is known as -

- (a) Postal Index Number
(b) Permanent Identification Number
(c) Personal Identification Number
(d) None of the above

Ans. (c) : PIN in Banking transaction, stands for Personal Identification Number.

42. Which one of the following organisation declared Varanasi its first Tourism and Cultural Capital in 2023?

- (a) Shanghai Co-operation Organisation (SCO)
(b) G-20
(c) ASEAN
(d) UNESCO

Ans. (a) : The Shanghai co-operation organisation (SCO) declared Varanasi its first Tourism and Cultural Capital in 2023.

43. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : Saline soils in India are not appropriate for cultivation of crops.

Reason (R) : Saline soils have high proportion of salt, largely because of dry climate and poor drainage.

Select the correct answer using the code given below :

Code :

- (a) Both (A) and (R) are true but (R) is not correct explanation of (A).
- (b) (A) is false but (R) is true.
- (c) (A) is true but (R) is false.
- (d) Both (A) and (R) are true and (R) is correct explanation of (A).

Ans. (d) : Saline soils in India are not appropriate for cultivation of crops because saline soils have high proportion of salt, largely because of dry climate and poor drainage.

44. With reference to the Burhan-ul-Mulk Saadat Khan, which of the following statements is/are correct?

1. Saadat Khan was the founder of Independent state of Awadh.
2. He took part in the conspiracy against the Sayyid Brothers.

Select the correct answer using the code given below:

Code :

- (a) Only 2
- (b) Both 1 and 2
- (c) Only 1
- (d) Neither 1 nor 2

Ans. (b) : Saadat Khan, also known as Burhan-ul-Mulk was the founder of the independent principality of Awadh. He took part in the conspiracy against the sayyid Brothers and overthrown, them. Hence both the statements are correct.

45. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : Rabi crops in India are predominantly cultivated in north-western states like Punjab and Haryana.

Reason (R) : The success of Rabi crops in these states depends on the rain due to western tropical cyclones during winters.

Select the correct answer using the code given below :

Code :

- (a) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (b) (A) is false but (R) is true.
- (c) (A) is true but (R) is false.
- (d) Both (A) and (R) are true and (R) is the correct explanation of (A).

Ans. (d) : Rabi crops, also known as winter crops does not are sown in winter and harvested in the spring in India. These are predominantly cultivated in north-western states like Punjab and Haryana. The success of Rabi crops in these states does not depends on the rain due to eastern tropical cyclones and western disturbance in winter. Hence, assertion (A) is correct and reason (R) is incorrect.

46. With reference to “Kuzbass region in Russia”, which of the following statements is/are correct?

1. This region is rich in coal and iron ore.
2. Novosibirsk is an important industrial centre of this region.

Select the correct answer using the code given below :

Code :

- (a) Both 1 and 2
- (b) Only 2
- (c) Only 1
- (d) Neither 1 nor 2

Ans. (a) : The Kuzbass region in Russia is rich in coal and iron ore. It is one of largest coal mining areas in Russia. The Novosibirsk is an important industrial centre of this region. The Novosibirsk region is known for aircraft industry nuclear industry, engineering industry, Power industry etc. Currently Novosibirsk is one of the leading suppliers of nuclear flue to the world power markets.

47. Two statements are given below, one is labelled as Assertion (A) and the other as Reason (R):

Assertion (A) : In October 1940, Gandhiji gave call for a limited Satyagraha by a few selected individuals.

Reason (R) : The Satyagraha was kept limited so as to embrace Britain's war efforts.

Select the correct answer using the code given below :

Code :

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (b) (A) is true but (R) is false.
- (c) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (d) (A) is false but (R) is true.

Ans. (c) : Gandhi ji launched a limited Individual Satyagraha in response to the August offer. It was a protest against the British Government and their inability to meet Indian demands. The satyagraha was kept limited so as to embrace Britain's war efforts. Hence both assertion (A) and reason (R) are correct and (R) is the correct explanation of (A).

48. Which statement is true regarding Bipin Chandra Pal?

1. He was a Brahmo Samaj Leader and Social Reformer.
2. A weekly magazine named New India was published.

Select the correct answer using the code given below :

Code :

- (a) Neither 1 nor 2 (b) Both 1 and 2
(c) Only 2 (d) Only 1

Ans. (b) : Bipin Chandra Pal was an Indian nationalist and freedom fighter. He was associated with Brahmo Samaj. He worked as writer, orator, social reformer. As a journalist, Pal worked for Bengal Public opinion, the Tribune and New India. Hence both statements are correct.

49. Match List-I with List-II and select the correct answer using the code given below

List-I (Oil Refineries)	List-II (States)
A. Barauni	1. Assam
B. Bongaigaon	2. Bihar
C. Bina	3. Gujarat
D. Koyali	4. Madhya Pradesh

Code :

A	B	C	D	A	B	C	D
(a) 2	4	3	1	(b) 3	1	4	2
(c) 1	2	3	4	(d) 2	1	4	3

Ans. (d) : The correct match is follows-

Oil Refineries	States
Barauni	- Bihar
Bongaigaon	- Assam
Bina	- Madhya Pradesh
Koyali	- Gujarat

50. If $\frac{a}{h} + \frac{y}{b} = 1$ and $\frac{b}{y} + \frac{z}{c} = 1$, then $\frac{h}{a} + \frac{c}{z}$ will be

equal to -

- (a) 0 (b) 1
(c) $\frac{b}{y}$ (d) None of the above

Ans. (b) : Given -

$$\frac{a}{h} + \frac{y}{b} = 1$$

$$\frac{a}{h} = 1 - \frac{y}{b} = \frac{b-y}{b}$$

$$\therefore \frac{h}{a} = \frac{b}{b-y} \quad \dots\dots (i)$$

And

$$\frac{b}{y} + \frac{z}{c} = 1$$

$$\frac{z}{c} = 1 - \frac{b}{y} = \frac{y-b}{y}$$

$$\frac{c}{z} = \frac{y}{y-b} = \frac{-y}{(b-y)} \quad \dots\dots (ii)$$

By adding equation (i) and (ii) -

$$\frac{h}{a} + \frac{c}{z} = \frac{b}{b-y} + \frac{(-y)}{b-y} = \frac{b-y}{b-y}$$

$$\boxed{\frac{h}{a} + \frac{c}{z} = 1}$$

51. Consider the following statements with reference to "Nandini Krishak Samriddhi Yojana" -

1. This scheme includes milch cow breeds of Sahiwal, Gir, Tharparkar and Gangatiri only.
2. Beneficiary must have at least one year of cattle rearing experience.

Select the correct answer from the code given below :

Code :

- (a) Neither 1 nor 2 (b) Only 2
(c) Only 1 (d) Both 1 and 2

Ans. (a) : The Nandini Krishak Samriddhi Yojana, is launched by Uttar Pradesh Government. It is a part of Nand Baba Mission. This scheme includes 25 milching cow breeds and Beneficiary must have at least three year of cattle rearing experience. Hence none of above statements are correct.

52. 15 bulbs each of 200 watt capacity in a Silkyara tunnel are illuminated continuously for 24 hours. The consumption of electricity will be -

- (a) 71 units (b) 72 units
(c) 73 units (d) None of the above

Ans. (b) : Total power consumed

$$= \frac{\text{Watt} \times \text{Hour}}{1000}$$

$$= \frac{200 \times 24}{1000}$$

$$= 4.8 \text{Unit}$$

So, Total power consumed in 15 bulb = $15 \times 4.8 = 72 \text{Unit}$.

53. Consider the following Mughal Emperors and arrange them in chronological order :

- I. Furrukhsiyar II. Jahandar Shah
 III. Bahadur Shah IV. Muhammad Shah

Code :

- (a) III, II, I, IV (b) I, IV, II, III
 (c) IV, II, I, III (d) I, III, IV, II

Ans. (a) : The correct chronological order of late Mughal emperors are- Bahadur Shah, Jahandar Shah, Farrukhsiyar and Muhammad Shah.

54. Match List-I with List-II and choose the correct answer using the code given below

List-I		List-II	
A. Merchandise Turnover	1.	$\frac{\text{Current Assets}}{\text{Current Liabilities}}$	
B. Current Ratio	2.	$\frac{\text{Liquid Assets}}{\text{Current Liabilities}}$	
C. Acid Test Ratio	3.	$\frac{\text{Net Profit before Interest \& Tax}}{\text{Total Assets}}$	
D. Gross Capital Employed	4.	$\frac{\text{Cost of Goods sold}}{\text{Average stock}}$	

Code :

- | | | | | | | | | | | |
|-----|----------|----------|----------|----------|--|----------|----------|----------|----------|---|
| | A | B | C | D | | A | B | C | D | |
| (a) | 4 | 1 | 2 | 3 | | (b) | 2 | 1 | 3 | 4 |
| (c) | 3 | 2 | 1 | 4 | | (d) | 4 | 3 | 1 | 2 |

Ans. (a) : The correct match is as follows :

List-I		List-II
Merchandise Turnover	-	Cost of good sold/Average stock
Current Ratio	-	Current Asset/ Current Liabilities.
Acid Test Ratio	-	Liquid Assets/Current Liabilities.
Gross Capital Employed	-	$\frac{\text{Net Profit before Interest \& Tax}}{\text{Total Assets}}$

55. Which among the following is the correct order mentioned in Preamble of the Indian Constitution?

- (a) Socialist, Secular, Sovereign, Democratic
 (b) Sovereign, Socialist, Secular, Democratic
 (c) Secular, Socialist, Sovereign, Democratic
 (d) Sovereign, Secular, Socialist, Democratic

Ans. (b) : The correct order of term mentioned in preamble of Indian Constitution is- Sovereign, Socialist, Secular, Democratic and Republic.

56. Which statement is correct about Panchayati Raj?

- (a) The Panchayat Samiti and Zila Parishad are constituted with directly elected members.
 (b) Minimum age is 18 years to contest the election at the Panchayat level.

(c) Election of the Panchayati Raj Institutions is conducted under the supervision of the State Election Commission.

(d) None of the above

Ans. (c) : Article 243K of Indian constitution says Election of the Panchayati Raj Institutions is conducted under the supervision of the state Election commission.

57. With reference to "AGMARK", which of the following statements is/are correct?

1. "AGMARK" is the sign of quality of agricultural products.
 2. Certificate of "AGMARK" is issued by Food Corporation of India.

Select the correct answer using the code given below :

Code :

- (a) Both 1 and 2 (b) Only 2
 (c) Only 1 (d) Neither 1 nor 2

Ans.(b) : AGMARK is a certification mark for agricultural produce assuring that they conform to a grade standard.

Certificate of AGMARK is issued by the Directorate of Marketing and Inspection, Under the ministry of Agriculture and Farmers welfare. Hence only statement-I is correct.

58. With reference to Uttar Pradesh, which of the following statements is/are correct?

1. Uttar Pradesh is divided into 9 economic regions.
 2. Uttar Pradesh has 11 agro-climatic zones.

Select the correct answer using the code given below :

Code :

- (a) Both 1 and 2 (b) Neither 1 nor 2
 (c) Only 2 (d) Only 1

Ans. (b) : Uttar Pradesh is divided into 4 economic region, named as Eastern region, Western region, Central region, and Bundelkhand region and Uttar Pradesh is divided in 9 agro climatic zones named as Terai, Western plains, Midwestern plains, Western semi-dry plains, Mid Western south plains, South-Western semidry plains, Bundelkhand, North-eastern plains and Vindhyachal. Hence none of above statements are correct.

59. Consider the following statements

1. Moradabad is renowned for copper work and has carved a niche for itself in the handicraft industry throughout the world.
 2. Moradabad Special Economic Zone (SEZ) is the first SEZ in northern India developed by Uttar Pradesh Government.

Select the correct answer using the code given below :

Code :

- (a) Only 1 (b) Both 1 and 2
(c) Neither 1 nor 2 (d) Only 2

Ans. (c) : Moradabad is renowned for brass work and has carved a niche for itself in the handicraft industry through out the world.

Noida Special Economic Zone (SEZ) is the first SEZ in northern India developed by central Government. It was setup in 1985.

Hence both statements are corrects.

60. Given below are two statements. One is labelled as Assertion (A) and the other as Reason (R) :
Assertion (A) : Jaunpur is known as Siraj-e-Hind.

Reason (R) : Jaunpur was a great centre of education during the Sharqi period.

Select the correct answer using the code given below :

Code :

- (a) (A) is true but (R) is false.
(b) Both (A) and (R) are true and (R) is correct explanation of (A).
(c) Both (A) and (R) are true but (R) is not correct explanation of (A).
(d) (A) is false but (R) is true.

Ans. (b) : Siraj-e-Hind, is the ancient name of the Jaunpur because it was a great centre of education during Sharqi Period. The city was founded by Firuz Shah Tughlaq in the memory of Mohammad bin Tughlaq.

61. Rocket works on the principle of the following :

- (a) Energy Conservation
(b) Bernoulli Theorem
(c) Conservation of Momentum
(d) Avogadro's Concept

Ans. (c) : Rocket works on the principle of conservation of momentum. Principle of conservation of momentum states that the total momentum of a system is always conserved for an isolated system.

Some examples of law of conservation of momentum:—

Air filled balloons.

System of gun and bullet.

62. Regarding Punjab Merger, which of the following statement is false?

- (a) On 29th March, 1849, the Governor General announced that the state of Punjab had come to an end.
(b) All the territories of Maharaja Duleep Singh became part of the Indian British Empire.

(c) Duleep Singh was given an annual pension of ₹ 2,50,000.

(d) None of the above

Ans. (c) : Punjab was annexed by the British in March 1849 as per the treaty of Lahore.

All territories of Maharaja Duleep Singh became part of the Indian British Empire. Duleep Singh was given an annual pension of ₹ 5,00,000.

Hence option (c) is incorrect.

63. 5 equivalent vertical lines are drawn on a board. 5 equidistant horizontal lines are also drawn on the board cutting the 5 vertical lines and the distance between any two consecutive horizontal lines is equal to that between any two consecutive vertical lines. What is the maximum number of squares, thus formed?

- (a) 16 (b) 26
(c) 30 (d) None of the above

Ans. (c) : Maximum number of squares –

Number of square of 4 unit = 1^2

Number of square of 3 unit = 2^2

Number of square of 2 unit = 3^2

Number of square of 1 unit = 4^2

Total Number of square = $4^2+3^2+2^2+1^2$

$$= 16 + 9 + 4 + 1$$

$$= 30$$

64. With reference to “69th National Film Awards for 2021”, which of the following statements is/are correct?

1. “RRR” and “Gangubai Kathiawadi” bagged 5 and 6 National Awards respectively.
2. “Rocketry : The Nambi Effect” won the best Feature Film Award.

Select the correct answer using the code given below :

Code :

- (a) Neither 1 nor 2 (b) Both 1 and 2
(c) Only 2 (d) Only 1

Ans. (c) : In 69th National Film Awards for 2021, RRR and Gangubai Kathiawadi bagged 6 and 5 national awards respectively. Hence statement-I is incorrect.

“Rocketry : The Nambi Effect” won the best Feature Film Award. Hence statement-II is correct.

65. In reference to Mangalayaan launched by ISRO, consider the following statements-

- I. It is also called as the Mars Orbiter Mission.
- II. It was launched on November 2013.

Select the correct answer using the code given below :

Code :

- (a) Neither I nor II (b) Both I and II
(c) Only I (d) Only II

Ans. (b) : The Mars orbiter Mission (MOM) unofficially known as Mangalyan was a space probe orbiting Mars since 2014. It was launched on 5 November 2013 by the Indian Space Research Organisation. Hence both statements are correct.

66. Which of the following statements is/are correct?

1. ITC means the credit of Input Tax on the supplies of goods and services or both received by a registered person.
2. Eligibility of ITC which may be as under-taxable supply, non-taxable supply, zero-rated supply.

Code :

- (a) Both 1 and 2 (b) Only 2
(c) Neither 1 nor 2 (d) Only 1

Ans. (a) : Input tax credit or ITC means the credit of input tax on the supplies of goods and services or both received by a registered person. Hence statement-I is correct.

Credit of input tax may be availed for under taxable supply, non taxable supply, zero rated supply. Hence statement-II is also correct.

67. Which of the following statements is/are incorrect?

- A. Part III on Fundamental Rights of the Constitution is based upon Bill of Rights of the U.S.A.
- B. "Right to Die" is a Fundamental Right under Article 21 of the Constitution.
- C. India Constitution is a complete Federal Constitution.
- D. Fundamental Right can be removed under the Indian Constitution.

Code :

- (a) Only B and C (b) Only C and D
(c) Only B (d) Only B, C and D

Ans. (d) : Part-III on Fundamental Rights of the constitution is based upon Bill of Rights of USA. Hence statement-I is correct.
'Right to Die' is not a Fundamental Right in Indian constitution Hence Statement-II is incorrect.
Indian constitution is a Federal constitution. Hence statement-III is incorrect.
Fundamental Rights are basic structure of the constitution, and cannot be removed under Indian constitution.
Hence statement IV is incorrect.

68. Match List-I with List-II and choose the correct answer using the code given below

	List-I (Name of Academy)	List-II (Year of Establishment)	
A.	Rajya Lalit Kala Academy, Lucknow	1.	1986
B.	Uttar Pradesh Sangeet Natak Academy, Lucknow	2.	1975
C.	Bhartendu Natya Academy, Lucknow	3.	1963
D.	Ayodhya Shodh Sansthan, Ayodhya	4.	1962

Code :

- | | | | | | | | | | |
|-----|---|---|---|---|-----|---|---|---|---|
| | A | B | C | D | | A | B | C | D |
| (a) | 4 | 3 | 2 | 1 | (b) | 3 | 4 | 1 | 2 |
| (c) | 4 | 3 | 1 | 2 | (d) | 3 | 2 | 4 | 1 |

Ans. (a) : The correct match is follows-

Name of Academy	Year of Establishment	
Rajya Lalit Kala Academy, Lucknow	-	1962
Uttar Pradesh Sangeet Natak Academy, Lucknow	-	1963
Bhartendu Natya Academy, Lucknow	-	1975
Ayodhya Shodh Sansthan, Ayodhya	-	1986

69. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : The Constitution vests the Executive Power of the Union in the President of India.

Reason (R) : The President of India is the Constitutional Head of the State.

Select the correct answer using the code given below :

Code :

- (a) Both (A) and (R) are true and (R) is correct explanation of (A).
(b) Both (A) and (R) are true but (R) is not correct explanation of (A).
(c) (A) is false but (R) is true.
(d) (A) is true but (R) is false.

Ans. (a) : Article-53 of the Indian constitution says. The executive power of the Union Vest in the President of India because of President of India is the constitutional Head of the state.
Hence both assertion (A) and reason (R) both are correct and are correct explanation of (A).

70. With reference to 'Victoria Falls in Africa', which of the following statements is/are correct?

1. It is located on the border of Zambia and Mozambique.

2. It is situated on Zambezi River.

Select the correct answer using the code given below :

Code :

- (a) Only 1 (b) Both 1 and 2
(c) Only 2 (d) Neither 1 nor 2

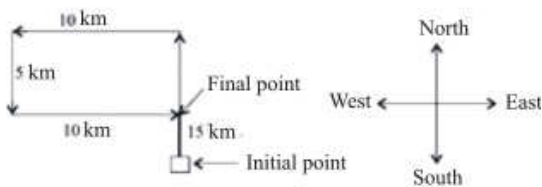
Ans. (c) : Victoria fall is situated on Zambezi river in Southern Africa. It is located on the border between Zambia and Zimbabwe.

Hence only statement-2 is correct.

71. From his house, Lokesh went 15 kms to the north. Then he turned west and covered 10 kms. Then he turned south and covered 5 kms. Finally turning to east, he covered 10 kms. In which direction is he from his house?

- (a) East (b) West
(c) North (d) None of the above

Ans. (c) :



Hence, Now Lokesh is north direction from his house.

72. Given below are two statements, in which one is labelled as Assertion (A) and the other as Reason (R) :

Assertion (A) : Significant technical and institutional reforms in Indian agriculture are required to feed the growing population.

Reason (R) : A significant number of farmers in many parts in India still rely on monsoon rains and natural soil fertility for agriculture.

Select the correct answer using the code given below :

Code :

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A).
(b) (A) is true but (R) is false.
(c) (A) is false but (R) is true.
(d) Both (A) and (R) are true but (R) is not the correct explanation of (A).

Ans. (d) : Significant technical and institutional reforms in Indian Agriculture are required to feed the growing population because of significant number of

farmers in many parts in India still rely on monsoonal rain fall and natural soil fertility for agriculture.

Hence, assertion (A) and reason (R) both are correct and (R) is correct explanation of A.

73. Which state of India is renowned for its deposits of limestone, gypsum, salt and zinc?

- (a) Haryana (b) Rajasthan
(c) Gujarat (d) Punjab

Ans. (b) : Almost entire production of natural gypsum and zinc comes from Rajasthan. Apart from this Rajasthan is also major producer of limestone and zinc.

74. One fourth of the sum of the odd numbers greater than 14 but less than 50 is the square of-

- (a) 2 (b) 24
(c) 4 (d) None of the above

Ans. (d) : The odd numbers greater than 14 but less than 50 = 15, 17, 19 47, 49

total odd numbers = 18

Summation of odd numbers greater than 14 but less than 50 = $\frac{18}{2}[15 + 49] = 9 \times 64 = 576$

One fourth of sum = $\frac{576}{4} = 144$

Square roots of 144 = $\sqrt{144} = 12$

75. With reference to the Gaza Strip, which of the following statements is/are correct?

1. It is bordered by Egypt.
2. It is bordered by Israel.

Select the correct answer using the code given below :

Code :

- (a) Only 1 (b) Neither 1 nor 2
(c) Both 1 and 2 (d) Only 2

Ans. (c) : Gaza strip is densely populated enclave 41 km long and 10 km wide 1 bounded by the Mediterranean Sea on one side and fenced off from Israel and Egypt at its borders.

76. Consider the following statements with reference to the Uttar Pradesh Global Investors Summit-2023 -

1. The Summit was held in Lucknow.
2. The Summit was inaugurated by the President of India.

Select the correct answer using the code given below :

Code :

- (a) Only 1 (b) Neither 1 nor 2
(c) Only 2 (d) Both 1 and 2